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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/940,479	08/29/2001	Kensen Okusako	Q65979	4867
7:	590 03/19/2003			
SUGHRUE, MION, ZINN, MACPEAK & SEAS 2100 Pennsylvania Avenue, N.W. Washington, DC 20037			EXAMINER	
			BOS, STEVEN J	
		,	ART UNIT	PAPER NUMBER
			1754	
			DATE MAILED: 02/10/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

A-S-4

Office Action Summary

Application No. 09/940,479

Applicant(s)

Okusako

Examiner

Steven Bos

Art Unit **1754**

The MAILING DATE of this communication appears on the	cover sheet with the correspondence address				
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.					
- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the					
mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statut. If NO period for reply is specified above, the maximum statutory period will apply and will a Failure to reply within the set or extended period for reply will, by statute, cause the application. Any reply received by the Office later than three months after the mailing date of this commerced patent term adjustment. See 37 CFR 1.704(b).	xpire SIX (6) MONTHS from the mailing date of this communication. ation to become ABANDONED (35 U.S.C. § 133).				
Status					
1) Responsive to communication(s) filed on					
2a) ☐ This action is FINAL . 2b) ☑ This action is	non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.					
Disposition of Claims					
4) 💢 Claim(s) <u>1-6</u>	is/are pending in the application.				
4a) Of the above, claim(s)	is/are withdrawn from consideration.				
5) Claim(s)					
6) 💢 Claim(s) <u>1-4 and 6</u>	is/are rejected.				
7) 💢 Claim(s) <u>5</u>	is/are objected to.				
8)	are subject to restriction and/or election requirement.				
Application Papers					
9) \square The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on	is: a) \square approved b) \square disapproved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) 💢 Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☑ All b) □ Some* c) □ None of:					
1. 💢 Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No.					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
*See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).					
a) The translation of the foreign language provisional application has been received.					
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)					
***	Notice of Informal Patent Application (PTO-152)				
3) X Information Disclosure Statement(s) (PTO-1449) Paper No(s). 2,3 6) Other:					
W mioritation disclosure of attending in 10-1440/1 about 10/6/2					

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki '514.

Sasaki suggests the instantly claimed process of mixing an acidic titanium compound, eg. titanic acid powder, with an organic amine to form a sol which is then calcined to titanium oxide. See col. 2.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to select the portion of the prior art's range which is within the range of applicant's claims because it has been held to be obvious to select a value in a known range by optimization for the best results, see In re Boesch, 205 USPQ 215.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, In re Malagari, 182 USPQ 549.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe '460.

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Watanabe suggests the instantly claimed process of mixing an acidic titanium compound, eg. titanyl sulfate or titanium oxysulfate, with an amine and then calcining the precipitate that is formed to titanium oxide. See cols. 5,13,14.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to select the portion of the prior art's range which is within the range of applicant's claims because it has been held to be obvious to select a value in a known range by optimization for the best results, see In re Boesch, 205 USPQ 215.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, In re Malagari, 182 USPQ 549.

Claims 1-4,6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki '514 in view of Watanabe '460.

Sasaki suggests the instantly claimed process but may differ in not stating the instantly claimed amines.

Watanabe suggests a similar process as Sasaki and teaches the use of the instantly claimed amines.

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It would have been obvious to one skilled in the art to use the amines taught by Watanabe in the process of Sasaki because Sasaki requires organic amines and Watanabe teaches the use of organic amines in a similar process of making titanium oxide.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to select the portion of the prior art's range which is within the range of applicant's claims because it has been held to be obvious to select a value in a known range by optimization for the best results, see In re Boesch, 205 USPQ 215.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, In re Malagari, 182 USPQ 549.

Claims 1,6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanezaki et al.

Kanezaki suggests the instantly claimed process of mixing titanium chloride with urea,
which would appear to be an organic nitrogen containing basic compound, to form a powder
which is then calcined. See the abstract and results on pg. 3583.

Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is (703) 308-2537. The examiner is on the increased flexitime program schedule and can normally be reached between 8AM and 6PM Monday through Friday. The FAX No. for After Final amendments is 703-872-9311, for all others it is 703-872-9310. Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0661.

Steven Bos Primary Examiner Art Unit 1754